



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61850-9-1:2003

ICS 33.200

**COMMUNICATION NETWORKS AND
SYSTEMS IN SUBSTATIONS
PART 9-1: SPECIFIC COMMUNICATION
SERVICE MAPPING (SCSM) -
SAMPLED VALUES OVER SERIAL
UNIDIRECTIONAL MULTIDROP POINT TO
POINT LINK
(IEC 61850-9-1:2003)**

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EUROPEAN STANDARD

EN 61850-9-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2003

ICS 33.200

English version

**Communication networks and systems in substations
Part 9-1: Specific Communication Service Mapping (SCSM) –
Sampled values over serial unidirectional
multidrop point to point link
(IEC 61850-9-1:2003)**

Réseaux et systèmes de communication
dans les postes

Partie 9-1: Implémentation spécifique
des services de communication -
Transmission de valeurs numérisées
par une liaison série unidirectionnelle
point à point multi brins
(CEI 61850-9-1:2003)

Kommunikationsnetze und -systeme in
Stationen

Teil 9-1: Spezifische Abbildung von
Kommunikationsdiensten (SCSM) -
Abgetastete Werte über serielle Simplex-
Mehrfach-Punkt-zu-Punkt-Verbindung
(IEC 61850-9-1:2003)

This European Standard was approved by CENELEC on 2003-05-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 57/619/FDIS, future edition 1 of IEC 61850-9-1, prepared by IEC TC 57, Power system control and associated communications, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61850-9-1 on 2003-05-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2004-02-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-05-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A and ZA are normative and annexes B, C and D are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61850-9-1:2003 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60044-7	- ¹⁾	Instrument transformers Part 7: Electronic voltage transformers	EN 60044-7	2000 ²⁾
IEC 60044-8	- ¹⁾	Part 8: Electronic current transformers	EN 60044-8	2002 ²⁾
IEC 60874-10-1	1997	Connectors for optical fibres and cables Part 10-1: Detail specification for fibre optic connector type BFOC/2,5 terminated to multimode fibre type A1	-	-
IEC 61850-7-2	- ¹⁾	Communication networks and systems in substations Part 7-2: Basic communication structure for substation and feeder equipment - Abstract communication service interface (ACSI)	EN 61850-7-2	2003 ²⁾
IEC 61850-7-3	- ¹⁾	Part 7-3: Basic communication structure for substation and feeder equipment - Common data classes	EN 61850-7-3	2003 ²⁾
ISO/IEC 8802-3	- ¹⁾	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 8825-1	- ¹⁾	Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)	-	-
IEEE 802.1Q	1998	IEEE Standards for local and metropolitan area networks: Virtual bridged local area networks	-	-
IEEE 802.3	- ¹⁾	Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications	-	-

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